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APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 09/847,168 05/01/2001 George Kechriotis 5181-77600 5654 EXAMINER 04/12/2004 Jeffrey C. Hood NGO, CHUONG D Conley, Rose & Tayon, P.C. PAPER NUMBER ART UNIT P.O. Box 398 Austin, TX 78767-0398 2124

Please find below and/or attached an Office communication concerning this application or proceeding.

		Ap	pplication No.	Applicant(s)	
		09	9/847,168	KECHRIOTIS, GI	EORGE
	Office Action Summary	Ex	aminer	Art Unit	
			nuong D Ngo	2124	
Period fo	The MAILING DATE of this communior Reply	cation appears	s on the cover sheet	with the correspondence a	ddress
THE - Exte after - If the - If NO - Failt Any	MAILING DATE OF THIS COMMUNIC ensions of time may be available under the provisions of FIX (6) MONTHS from the mailing date of this commit e period for reply specified above is less than thirty (30 Depriod for reply is specified above, the maximum stature to reply within the set or extended period for reply very reply received by the Office later than three months afted patent term adjustment. See 37 CFR 1.704(b).	CATION. of 37 CFR 1.136(a). unication.) days, a reply withi tutory period will apl will, by statute, caus	In no event, however, may in the statutory minimum of ply and will expire SIX (6) M is the application to become	a reply be timely filed hirty (30) days will be considered time ONTHS from the mailing date of this of ABANDONED (35 U.S.C. & 133).	aly. communication.
Status					
1)⊠	Responsive to communication(s) filed	d on <i>15 April 2</i>	2002.		
·	This action is FINAL . 2b)⊠ This action is non-final.				
3)[Since this application is in condition f	•		atters, prosecution as to th	e merits is
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.				
Disposit	ion of Claims				
5)□ 6)⊠ 7)□	Claim(s) 1-62 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) is/are allowed. Claim(s) 1-31,34,35,41-51,61 and 62 is/are rejected. Claim(s) 32,33,36-40 and 52-60 is/are objected to. Claim(s) are subject to restriction and/or election requirement.				
Applicat	ion Papers				
10)	The specification is objected to by the The drawing(s) filed on is/are: Applicant may not request that any object Replacement drawing sheet(s) including The oath or declaration is objected to	a) accepte tion to the draw the correction is	ving(s) be held in abey s required if the drawi	vance. See 37 CFR 1.85(a).	
Priority (under 35 U.S.C. § 119				
12)□ a)	Acknowledgment is made of a claim f All b) Some * c) None of: 1. Certified copies of the priority of 2. Certified copies of the priority of 3. Copies of the certified copies of application from the Internation See the attached detailed Office action	documents ha documents ha of the priority on al Bureau (Po	ve been received. ve been received in documents have be CT Rule 17.2(a)).	Application No en received in this Nationa	l Stage
2) 🔲 Notio 3) 🔯 Infor	nt(s) ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PT mation Disclosure Statement(s) (PTO-1449 or F er No(s)/Mail Date <u>5</u> .		Paper N	w Summary (PTO-413) o(s)/Mail Date if Informal Patent Application (PT 	·O-152)

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DETAILED ACTION

1. Claims 1-21, 24-31, 34,35,44-51 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

As per claim 1, the recitation "a corresponding P memory medium", line 3, is indefinite. Claims 61 and 62 also have the same problems.

As per claim 4, it is indefinite as to what "a first mirror processor", line 4, and "a second mirror processor", lines 5-6, are. Claims 11,24,31,44 and 51 also have the same problem.

As per claim 43, the recitation "the P memory mediums" line 5, lacks a proper antecedent basis.

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-3, 21-23,41-43,61 and 62 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tsutsui (5,349,549) in view of Ju et al. (6,304,887).

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Tsutsui discloses in figure 2 a discrete transform of an input signal including preprocessing (S01-S03) on the input signal to produce a first intermediate vector y (Z01) executing a Fourier transform (S04) on vector y to produce a second intermediate vector a (Z02), and post processing (S5) on vector a to produce a result vector v (Y01) comprising the discrete transform of the input signal (see col. 16, line 58 through col. 17, line 17). It is noted that Tsutsui does not discloses the discrete transform being performed in parallel in a system comprising P interconnected processor and corresponding memory mediums. However, Ju et al discloses in figure 1 a parallel processing system including P interconnected processors and corresponding memory mediums for partitioning the input signal into P ordered local vectors and distributing the local vectors to the memory medium (see col. 6, lines 41-50), and performing a transform in parallel as claimed. It would have been obvious to a person of ordinary skill in the art to perform the discrete transform of Tsutsui in parallel using a plurality of interconnected processors and corresponding memory mediums as taught by Ju et al. in order to improve the latency and throughput of the transform circuit (see col. 2, lines 45-55).

- 4. Claims 32,33,36-40 and 52-60 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chuong D Ngo whose telephone number is (703) 305-9764. The examiner can normally be reached on Tuesday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kakali Chaki can be reached on (703) 309-9662. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Chuong D Ngo Primary Examiner Art Unit 2124

04-08-2004